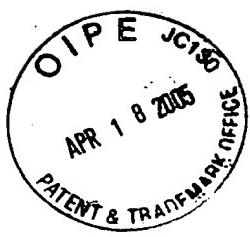


Appl. No.: 09/710,488  
Inventor: WONG, Robert P.  
Docket No.: 36457.0200  
Attorney: R. Lee Fraley  
Phone: 602-382-6250



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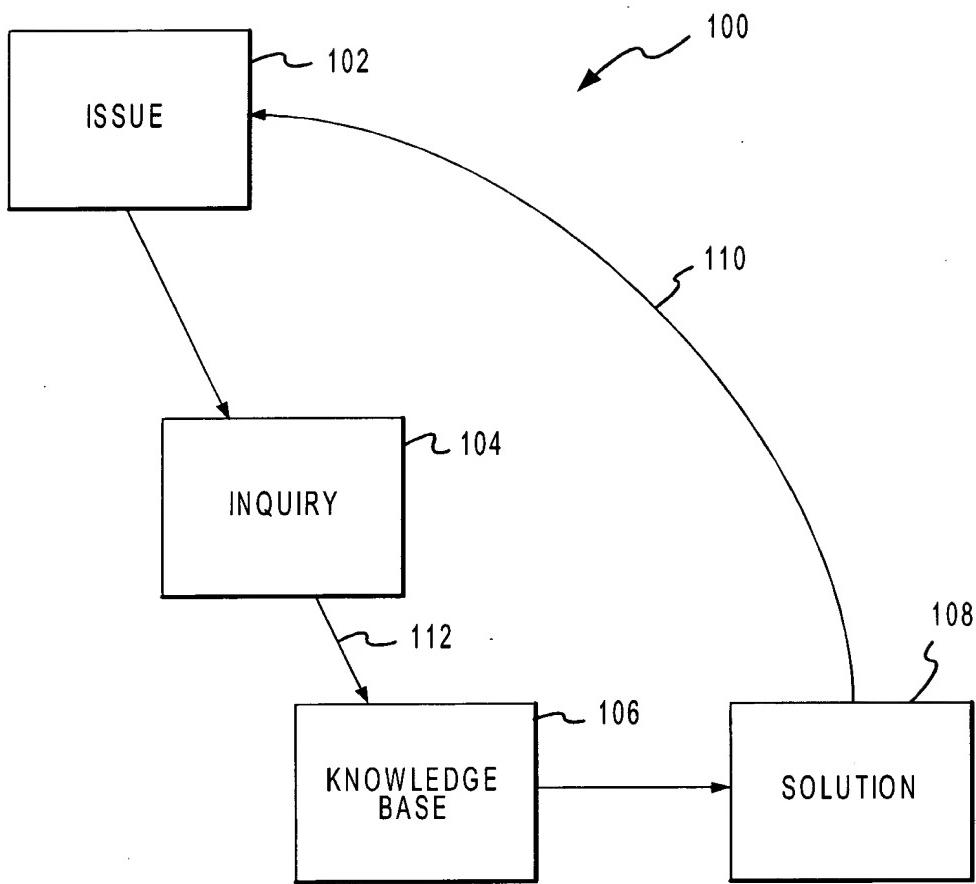


FIG.1

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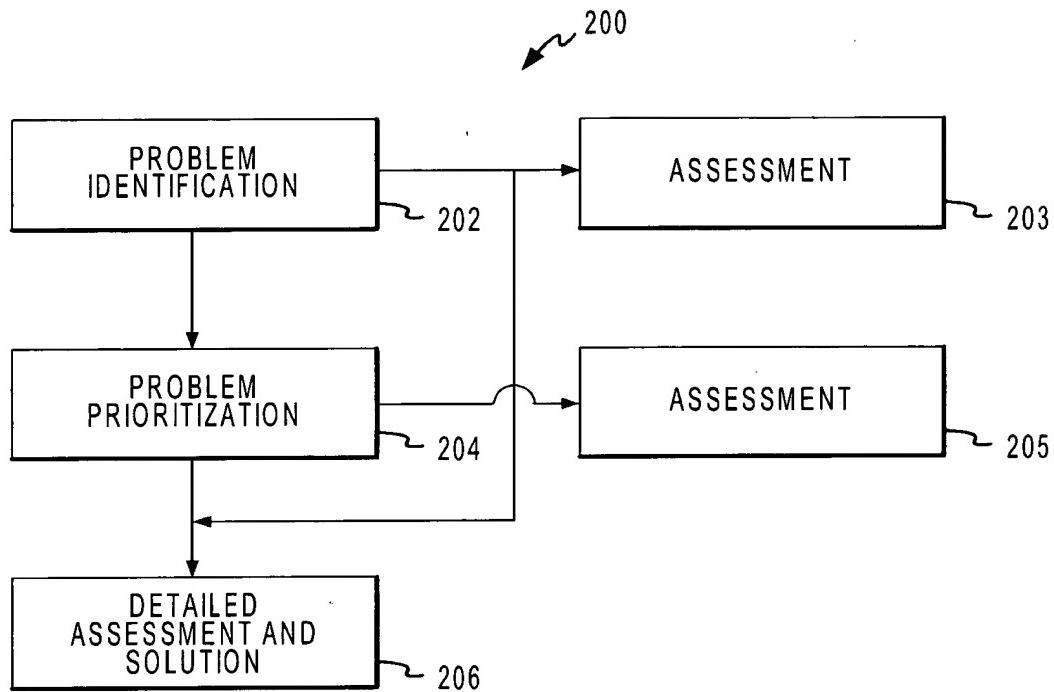


FIG.2

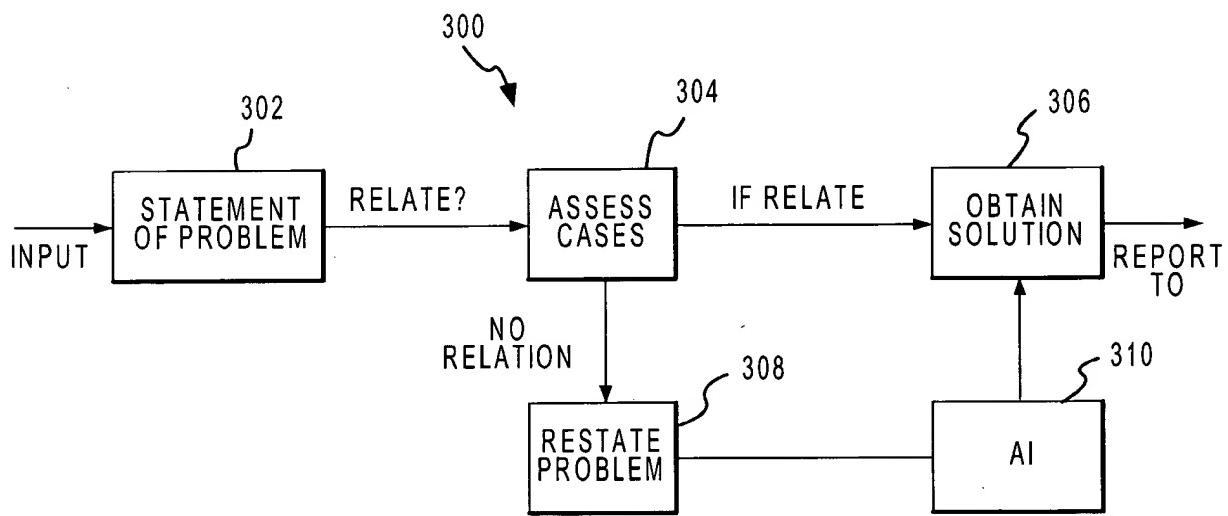


FIG.3

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Docket No.: 36457.0200  
Attorney: R. Lee Fraley  
Phone: 602-382-6250



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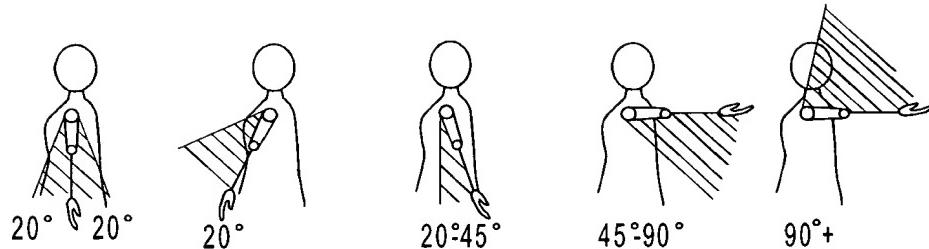


FIG.7

TASK/ACTION	RIGHT	LEFT	REMOVE
R-1 CUTTING OF LARGE SHELLS			
GRASP SHELL		1	
PLACE SHELL ON LATHE		5	
REMOVE WHILE ROTATING SHELL		5	
REPLACE SHELL		1	
LOWER LEVER	5		
RAISE LEVER	5		
R-2 CUTTING OF SMALL SHELLS			
GRASP SHELL		1	
PLACE SHELL ON LATHE		9	
REMOVE WHILE ROTATING SHELL		9	

FIG.4

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Attorney: R. Lee Fraley  
Phone: 602-382-6250



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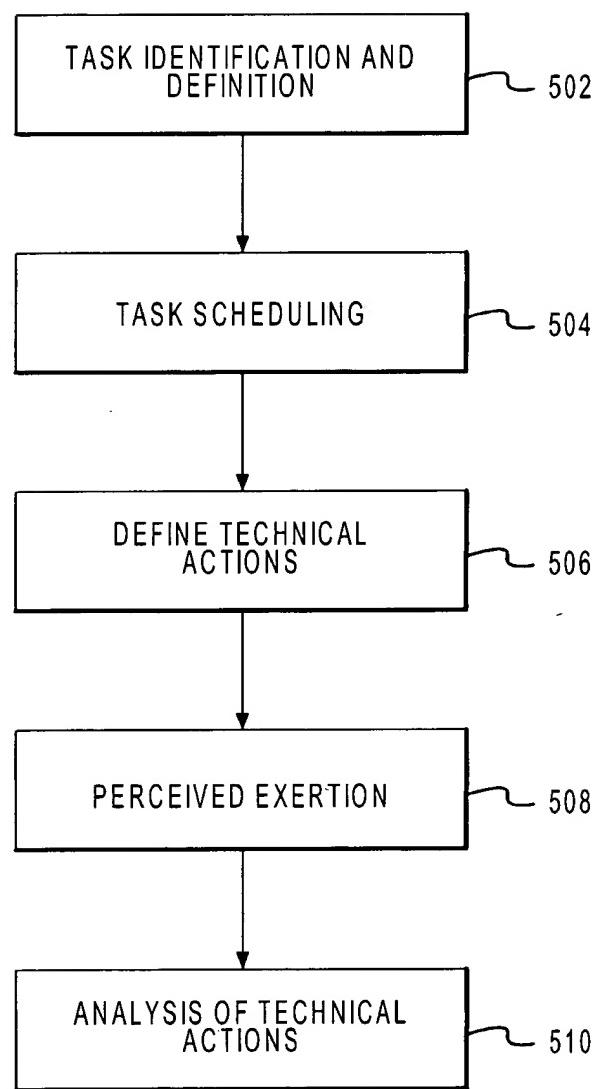


FIG.5

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Docket No.: 36457.0200  
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0	NOTHING AT ALL
0.5	VERY, VERY WEAK (JUST NOTICEABLE)
1	VERY WEAK
2	WEAK (LIGHT)
3	MODERATE
4	SOMEWHAT STRONG
5	STRONG HEAVY
6	
7	VERY STRONG
8	
9	
10	VERY, VERY STRONG (ALMOST MAXIMUM)

FIG.6

8 2005

WORK REFERENCE  
JC180

OIPE JC180  
APR 18 2005

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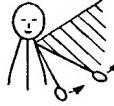
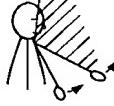
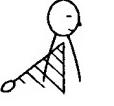
SHOULDER POSITIONS AND MOVEMENTS-LEFT SIDE					SHOULDER POSITIONS AND MOVEMENTS-RIGHT SIDE													
ABDUCTION	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3		ABDUCTION	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
FLEXION	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3		FLEXION	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
EXTENSION	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3		EXTENSION	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
<input type="checkbox"/> PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE SHOULDER FOR MORE THAN 50% OF THE CYCLE/TASK TIME?					<input type="checkbox"/> PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE SHOULDER FOR MORE THAN 50% OF THE CYCLE/TASK TIME?													
<input type="checkbox"/> KEEPS THE ARM RAISED (UNSUPPORTED) BY AN ANGLE MORE THAN 60 DEGREES OR IN EXTENSION FOR AT LEAST 10 SEC. CONSECUTIVELY ONCE EVERY CYCLE (SHORT CYCLE). FOR LONGER CYCLE TIME INCREASE PROPORTIONATELY THE TIME OF THE STATIC CONTRACTION.					<input type="checkbox"/> KEEPS THE ARM RAISED (UNSUPPORTED) BY AN ANGLE MORE THAN 60 DEGREES OR IN EXTENSION FOR AT LEAST 10 SEC. CONSECUTIVELY ONCE EVERY CYCLE (SHORT CYCLE). FOR LONGER CYCLE TIME INCREASE PROPORTIONATELY THE TIME OF THE STATIC CONTRACTION.													
<input type="checkbox"/> KEEPS THE ARM RAISED (UNSUPPORTED) AT 60 DEGREES FOR >1 MINUTE ▽					<input type="checkbox"/> KEEPS THE ARM RAISED (UNSUPPORTED) AT 60 DEGREES FOR >1 MINUTE ▽													
ABDUCTION      FLEXION					EXTENSION													
																		
																		
ELBOW MOVEMENTS-LEFT SIDE					ELBOW MOVEMENTS-RIGHT SIDE													
SUPINATION	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3		SUPINATION	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
PRONATION	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3		PRONATION	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
FLEXION	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3		FLEXION	<input type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
<input type="checkbox"/> PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE ELBOW FOR MORE THAN 50% OF THE CYCLE?					<input type="checkbox"/> PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE ELBOW FOR MORE THAN 50% OF THE CYCLE?													
																		

FIG.8A



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WRIST POSITIONS AND MOVEMENTS-LEFT SIDE

EXTENSION	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
FLEXION	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
RADIAL DEVIATION	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
ULNAR DEVIATION	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3

PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE WRIST FOR MORE THAN 50% OF THE CYCLE?



EXTENSION/FLEXION

TYPE OF GRIP AND FINGER MOVEMENTS-LEFT SIDE

TIGHT GRIP (1.5CM)	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
PINCH	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
PALMAR GRIP	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
HOOK GRIP	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
KEYING GRIP	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
WIDE GRIP (4-5CM)	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3

PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE SAME FINGER(S) FOR AT LEAST 50% OF THE CYCLE?

HOLDS AN OBJECT IN A PINCH, PALMAR OR HOOK GRIP FOR AT LEAST 50% OF CYCLE?

WRIST POSITIONS AND MOVEMENTS-RIGHT SIDE

EXTENSION	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
FLEXION	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
RADIAL DEVIATION	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
ULNAR DEVIATION	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3

PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE WRIST FOR MORE THAN 50% OF THE CYCLE?



RADIAL/ULNAR

TYPE OF GRIP AND FINGER MOVEMENTS-RIGHT SIDE

TIGHT GRIP (1.5CM)	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
PINCH	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
PALMAR GRIP	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
HOOK GRIP	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
KEYING GRIP	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3
WIDE GRIP (4-5CM)	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/>	1/3	<input type="checkbox"/>	2/3	<input type="checkbox"/>	3/3

PERFORMS WORK GESTURES OF THE SAME TYPE INVOLVING THE SAME FINGER(S) FOR AT LEAST 50% OF THE CYCLE?

HOLDS AN OBJECT IN A PINCH, PALMAR OR HOOK GRIP FOR AT LEAST 50% OF CYCLE?

FIG.8B

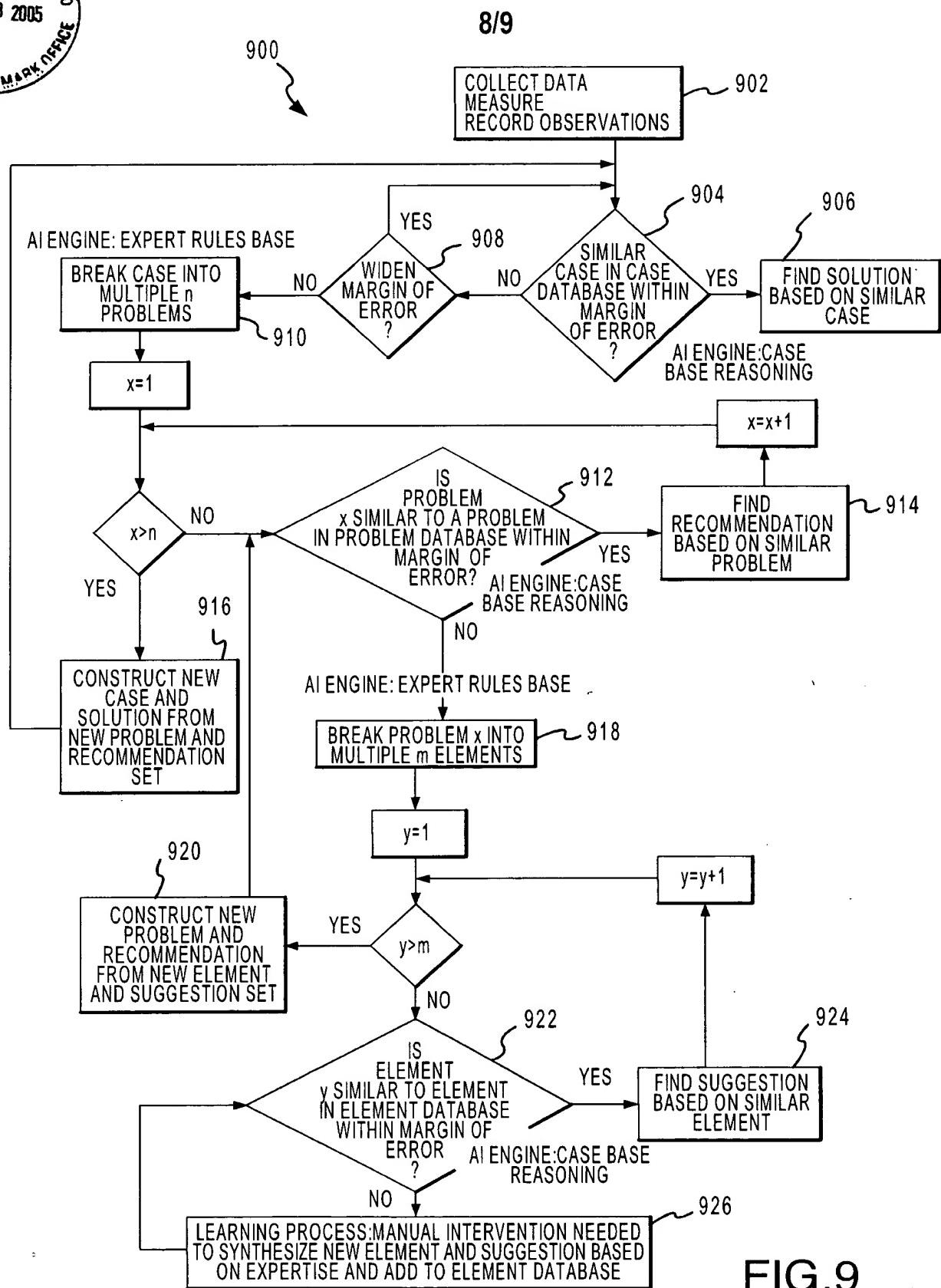


FIG.9



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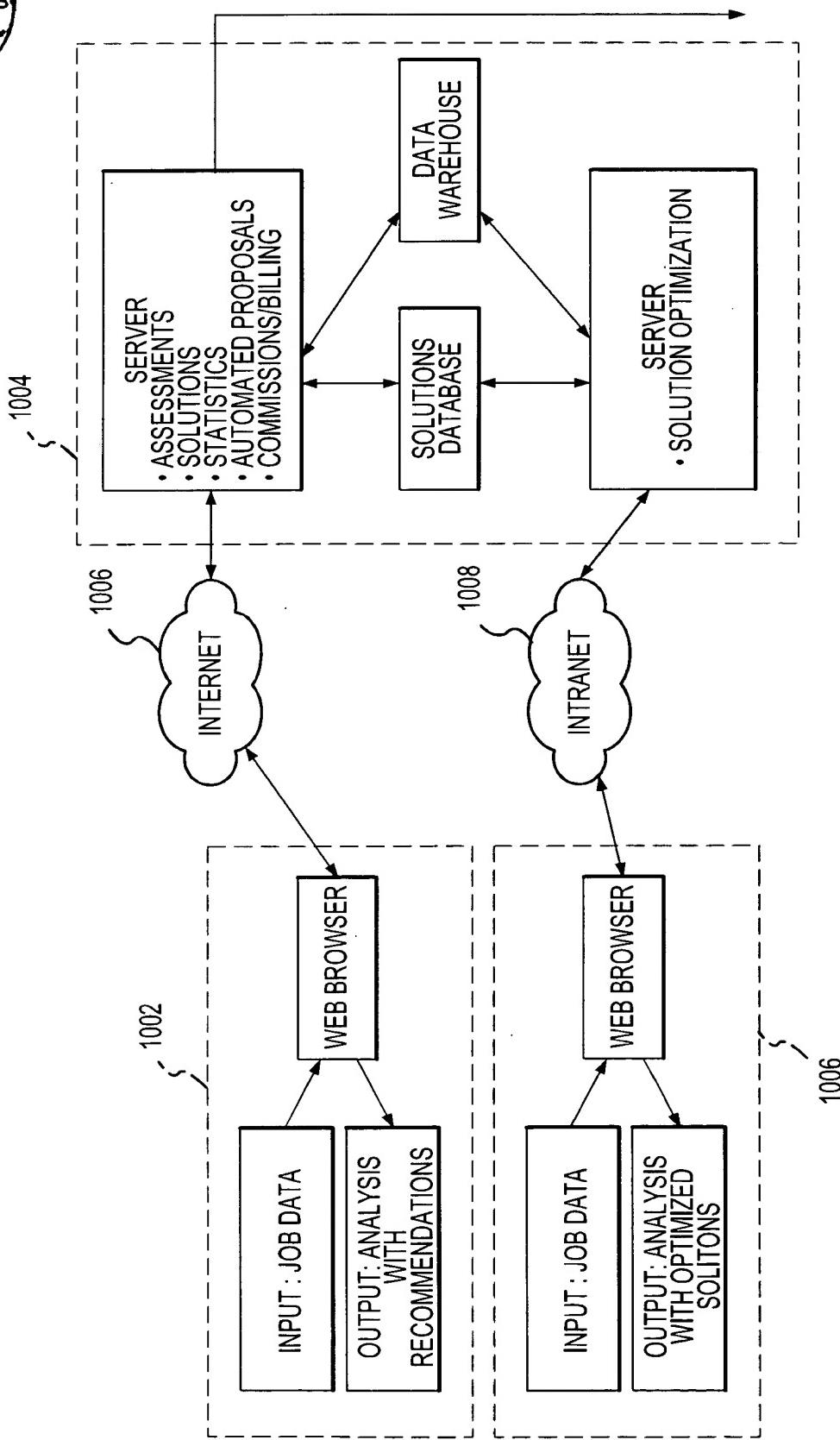


FIG. 10